

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W., SUITE 600
WASHINGTON, D.C. 20005-3934

www.skgf.com

PHONE: (202) 371-2600 FACSIMILE: (202) 371-2540

04/14/00
JC504 U.S. PTO
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04/14/00
BERT GREENE STERNE
HOWARD J. KESSLER
DAVID E. GOLDSTEIN
SAMUEL L. FOX
DAVID K.S. CORNWELL
ROBERT W. ESMOND
TRACY-GENE G. DURKIN
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W. BRIAN EDGE*

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ANDREA J. KAMAGE**
NANCY J. LEITH**
TARJA H. NAUKKARINEN**

*BAR OTHER THAN D.C.
**REGISTERED PATENT AGENTS

April 14, 2000

WRITER'S DIRECT NUMBER:
(202) 371-2587

INTERNET ADDRESS:
pgarrett@skgf.com

Commissioner for Patents
Washington, D.C. 20231

Box Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
(Continuation-in Part of: 09/521,878)
Appl. No. To Be Assigned; Filed: April 14, 2000
For: **Method and System for Down-Converting an Electromagnetic Signal,
and Transforms for Same**
Inventors: Sorrells *et al.*
Our Ref: 1744.0920001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
Patent and Trademark Office:

1. USPTO Utility Patent Application Transmittal Form PTO/SB/05;
2. U.S. Utility Patent Application entitled:

**Method and System for Down-Converting an Electromagnetic Signal, and
Transforms for Same**

and naming as inventor(s):

David F. Sorrells
Michael J. Bultman
Robert W. Cook
Richard C. Looke
Charley D. Moses, Jr.
Gregory S. Rawlins
Michael W. Rawlins

Assistant Commissioner for Patents
 April 14, 2000
 Page 2

the application comprising:

- a. specification containing:
 - i. 372 pages of description prior to the claims;
 - ii. 14 pages of claims (74 claims);
 - iii. a one (1) page abstract;
- b. 339 sheets of drawings: (Figures 1-4, 5A-5C, 6A-6C, 7A-7C, 8A-8C, 9A-9C, 10A-10C, 11, 12A-12D, 13, 14A-14D, 15A-15E, 16, 17, 18A-18E, 19A-19E, 20A-20E, 21A-21E, 22A-22E, 23A-23E, 24A-24C, 25A-25H, 26A-26B, 27, 28A-28D, 29A-29L, 30, 31A-31C, 32A-32C, 33A-33D, 34A-34F, 35A-35E, 36A-36E, 38A-38E, 39A-39D, 40A-40E, 41A-41E, 42, 43, 44A-44E, 45A-45B, 46A-46D, 47A-47E, 48, 49A-49H, 50A-50G, 51A-51G, 52A-52G, 53A-53G, 54A-54G, 55A-55G, 56A-56D, 57A-57F, 58A-58F, 59A-59F, 60A-60F, 61A-61F, 62A-62F, 63, 64A-64B, 65, 66A-66D, 67A-67C, 68A-68L, 69-70, 71A-71C, 72-74, 75A-75F, 76A-76E, 77A-77C, 78A-78B, 79A-79F, 80A-80F, 81A-81F, 82A-82B, 83A-83F, 84A-84D, 85A-85C, 86-93, 94A-94C, 95-95, 98A-98F, 99-106, 107A-107B, 108A-108B, 109A-109F, 110A-110B, 111A-111C, 112, 113A-113E, 114-123, 124A-124J, 125, 126A-126Q, 127A-127Q, 128A-128C, 129A-129Q, 130-163, 164A-164C, 165-177, 178A-178B, and 179-213, 214, 215, 216, 217, 218A-218E, 219-285);

3. 37 C.F.R. § 1.136(a)(3) Authorization to Treat a Reply As Incorporating An Extension of Time; and
4. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

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Assistant Commissioner for Patents

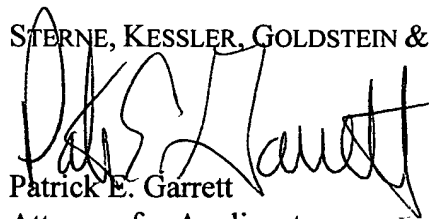
April 14, 2000

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This patent application is being submitted under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Patrick E. Garrett
Attorney for Applicants
Registration No. 39,987

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PTO/SB/05 (2/98)

approved for use through 09/30/2000. OMB 0651-0032

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No. 1744.0920001

First Inventor or Application Identifier David F. Sorrells

Title Method and System for Down-Converting an Electromagnetic Signal, and Transforms for Same

Express Mail Label No.

APPLICATION ELEMENTS
See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☐ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)

2. ☒ Specification [Total Pages 387]
(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 339]

4. ☐ Oath or Declaration [Total Pages _____]

a. ☐ Newly executed (original or copy)

b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)
[Note Box 5 below]

i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)

7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

a. ☐ Computer Readable Copy

b. ☐ Paper Copy (identical to computer copy)

c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))

9. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)

10. ☐ English Translation Document (if applicable)

11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations

12. ☐ Preliminary Amendment

13. ☒ Two Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

14. ☐ *Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired
(PTO/SB/09-12)

15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. ☒ Other: 37 C.F.R. § 1.136(a)(3) Authorization

☐ Other:

*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27). EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☒ Continuation-in-Part (CIP) of prior application No: 09/521,878

Prior application information: Examiner To Be Assigned Group/Art Unit: To Be Assigned

18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.				
	Attorneys at Law				
ADDRESS	Suite 600, 1100 New York Avenue, N.W.				
CITY	Washington	STATE	DC	ZIP CODE	20005-3934
COUNTRY	USA	TELEPHONE	(202) 371-2600	FAX	(202) 371-2540

NAME (Print/Type)	Patrick E. Garrett	Registration No. (Attorney/Agent)	39,987
SIGNATURE		Date	4/14/00



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells *et al.*

Appl. No. To Be Assigned
(Continuation-in-part of 09/521878)

Filed: April 14, 2000

For: **Method and System for Down-
Converting an Electromagnetic
Signal, and Transforms for Same**

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1744.0920001

**Authorization To Treat A Reply As Incorporating An Extension Of Time
Under 37 C.F.R. § 1.136(a)(3)**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants

Registration No. 39,987

Date: April 14, 2000
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
(202) 371-2600